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## PATENT ABSTRACTS OF JAPAN

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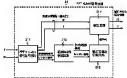
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## (54) ORTHOGONAL FREQUENCY DIVISION MULTIPLE SIGNAL TRANSMISSION SYSTEM, TRANSMITTING DEVICE AND RECEIVING DEVICE

## (57)Abstract:

PROBLEM TO BE SOLVED: To prevent the occurrence of a code error by correcting the error of an amplitude character difference and a phase characteristic difference between an I-signal and a Q-signal. SOLUTION: A transmission side transmits a known reference signal with a specified carrier among plural carriers constituting an OFDM signal, designates the carrier transmitting the known reference signal by a symbol number transmitted with the prescribed carrier, and sequentially changes and transmits them in a circle at every regular period. A reception side demodulates the reference signal in a decoding circuit 311 and a detection circuit 312 detects a transmission line characteristic. A first correction expression from the detected transmission line characteristic. A first correction circuit 314

decodes the signals by using the correction expression. A second



correction expression is newly calculated and corrected for the output signal of the correction circuit 314. Thus, a high speed change characteristic can be corrected.